



BY: jmcneal

**WBCM**  
ARCHITECTURE ENGINEERING CONSTRUCTION

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- GENERAL NOTES**
1. THE CONTRACTOR SHALL VERIFY ALL PROPOSED POLE LOCATIONS PRIOR TO INSTALLATION.
  2. FINAL PAVEMENT MARKINGS SHALL BE REPLACED IN KIND EXCEPT FOR MODIFICATIONS ASSOCIATED WITH THE CROSSWALKS AND STOP LINES SHOWN ON THE SIGNALIZATION PLANS. MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH MSHA STANDARDS.
  3. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT REMOVED SHALL BECOME THE PROPERTY OF THE SIGNAL CONTRACTOR UPON COMPLETION OF THE NEW SIGNAL.
  4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING ALL SIGNAL CABLE TO THE APPROPRIATE TERMINALS AND PROPERLY LABEL EACH CABLE.
  5. THE CONTRACTOR SHALL VERIFY ALL UNDERGROUND UTILITIES PRIOR TO INSTALLING PROPOSED SIGNAL EQUIPMENT. IF ANY UTILITY CONFLICTS SHOULD ARISE THE CONTRACTOR SHALL CONTACT THE PROJECT ENGINEER.
  6. ALL TRAFFIC SIGNAL FOUNDATIONS SHALL BE INSTALLED AT THE FINAL SIDEWALK OR CURB GRADE FOR CLOSED SECTIONS. HIGHEST ROADWAY PROFILE GRADE FOR OPEN SECTIONS. TO MEET CLEARANCES AS SPECIFIED IN MD 816.03, MD 818.01, MD 818.02, MD 818.04. THE CONTRACTOR SHALL VERIFY ULTIMATE GRADES PRIOR TO THE INSTALLATION OF ALL SIGNAL EQUIPMENT.
  7. REFER TO PLAN SHEET 29 OF 54 FOR INSTALLATION OF AND MODIFICATIONS TO ALL ADA RAMPS.
  8. MAINTAIN EXISTING SIGNAL UNTIL PROPOSED SIGNAL IS IN FULL SERVICE.
  9. TRENCH CONDUIT PRIOR TO RAMP AND SIDEWALK INSTALLATION.
  10. PUSHBUTTONS TO BE LOCATED SO THAT THEY CAN BE ACTIVATED BY A PERSON IN A WHEELCHAIR REACHING LESS THAN 18" FROM A 60"x60" LEVEL LANDING AREA WITH A CROSS SLOPE OF LESS THAN OR EQUAL TO 2%.
  11. THE 10' SEPARATION BETWEEN PUSHBUTTONS IS TO BE MEASURED FROM FACE OF PUSHBUTTON TO FACE OF PUSHBUTTON, NOT CENTER TO CENTER OF POLE.
  12. PUSHBUTTON ARROWS ARE TO BE PARALLEL TO THE CROSSING FOR WHICH THEY ARE INTENDED.
  13. LOCATION OF ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTONS MUST MEET LOCATION REQUIREMENTS OF MCD SEC. 4E.09 AND FIG. 4E.2 AND THE NCHRP PUBLICATION, "ACCESSIBLE PEDESTRIAN SIGNALS: GUIDE TO BEST PRACTICE". IF NOT MET, THE CONTRACTOR IS TO STOP WORK ON PUSHBUTTON LOCATIONS UNTIL A DESIGN WAIVER IS OBTAINED, APPROVED BY THE DIRECTOR, OFFICE OF TRAFFIC AND SAFETY.
- CONSTRUCTION DETAILS**
- A. INSTALL CONCRETE FOUNDATION WITH 10 FT. STEEL PEDESTAL POLE WITH BREAKAWAY BASE, PEDESTRIAN SIGNAL, PUSHBUTTON STATION AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND). EXISTING CONDUIT IS NOT TO BE DISTURBED.
  - B. INSTALL CONCRETE FOUNDATION WITH STEEL PEDESTAL STUB POLE (CUT TO 5 FT.) WITH BREAKAWAY BASE, PUSHBUTTON STATION AND SIGN. (NOTE: ONE 3 IN. PVC SCHEDULE 80 CONDUIT BEND).
  - C. REMOVE EXISTING PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN AND INSTALL NEW COUNTDOWN PEDESTRIAN SIGNAL WITH 5-CONDUCTOR CABLE.
  - D. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED DURING SIDEWALK CONSTRUCTION.
  - E. REMOVE EXISTING PEDESTAL POLE, SIGN, PEDESTRIAN SIGNAL, PUSHBUTTON AND SIGN AND FOUNDATION TO 1 FT. BELOW GRADE AND BACKFILL.
  - F. INSTALL NEW 12 IN. OR 8 IN. (SEE PROPOSED SIGNAL SCHEDULE.) LED BLACK-FACED SIGNAL HEAD. REMOVE EXISTING CABLE. REUSE EXISTING CABLE.
  - G. INSTALL 3 IN. PVC SCHEDULE 80 ELECTRICAL CONDUIT - TRENCHED.
  - H. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING 12 FT. APART WITH 45 DEGREE HATCHING AT 2 FT. SPACING FOR CROSSWALK.
  - I. INSTALL PROPOSED POLE MOUNTED SIGN.
  - J. INSTALL 24 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING (STOP LINE).
  - K. INSTALL 12 IN. HEAT APPLIED, WHITE PERMANENT PREFORMED THERMOPLASTIC PAVEMENT MARKING 12 FT. APART (CROSSWALK).
  - L. REMOVE EXISTING GROUND MOUNTED SIGN AND SUPPORT(S).
  - M. REMOVE EXISTING SIGN AND REPLACE WITH PROPOSED SIGN.
  - N. SEE INTERCONNECT PLAN (SG-09).
  - O. INSTALL GROUND MOUNTED SIGN ON TWO (2) 4 IN. x 4 IN. WOOD SUPPORTS.
- GEOMETRIC LEGEND**
- EXISTING  
PROPOSED
- UTILITY LEGEND**
- SD - STORM DRAIN  
G - GAS MAIN  
W - WATER MAIN  
S - SEWER MAIN  
E - ELECTRIC CABLES  
A - AERIAL CABLES  
T - TELEPHONE CABLES  
F - FIBER-OPTIC
- APPROVALS**
- TEAM LEADER  
ASST. DIR. CHIEF  
DIVISION CHIEF  
OFFICE DIRECTOR
- REVISIONS**
- | NO. | DESCRIPTION  | DATE     |
|-----|--|----------|
| 2   | INSTALL APCSPS FOR MD 193 AND UPGRADE TO LED SIGNAL HEAD | 11/09/09 |
| 1   | INSTALL HIB WB MD 193                                    | 01/09    |
- 105172708 2% 12.14
- MO20090106

**SHA** STATE OF MARYLAND  
DEPARTMENT OF TRANSPORTATION  
STATE HIGHWAY ADMINISTRATION  
OFFICE OF TRAFFIC & SAFETY  
TRAFFIC ENGINEERING DESIGN DIVISION  
MD 193 (WEST UNIVERSITY BOULEVARD)  
AT REEDIE DRIVE  
WHEATON, MARYLAND

**SIGNALIZATION PLAN SHEET**

SCALE 1"=20' ADVERTISED DATE NA CONTRACT NO. NA

DESIGNED BY TGI COUNTY MONTGOMERY  
DRAWN BY JD LOGMILE 15019301.96  
CHECKED BY MR TIMS NO. J198  
F.A.P. NO. SEE TITLE SHEET TOD NO.

TS NO. 3846 DRAWING SG-05 OF 10 SHEET NO. OF

PLOTTED: Tuesday, January 06, 2009 AT 10:58 AM  
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